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SOURCSOURCE "Electification Plans and the Deficiency of Electric Powerifor Undustry in their the Soviet Union; Mineographed Series No. 9, East-European Fund, Inc., 1952. **1952**:

FRATA PROMEENIGRE REPORTS A FRIONIPREWAR WESH ELECTRIC POWER SUPPLY

This This report consists of excerpts from articles by these emigres from from the USSR, writing as outhors "N," 40, " and MP, " uno flormerly sorke worked an the field of electric power. The articles were knowled and is and dissued by the East European Fund, Into under the English title "Blect/Electrification Plans and the Deficienty of Blectric Power for Industinguish the Soviet Union. 'S No dates were mentioned in the arciclesticles signit apparently the details sall prevar.

About About 85 spendentwoff the construction work on electric power stations has been cheen done on applecework basis. According to a report by: Glavenergo (Main Blect.Electric Power. Administration, loual fuels were used direthe production of about about 167.8 percent of whit electric power . The Eugevskaya GRES with thest thermal elman electric power station in the USSR, used 0.514 kblogram of standard truel to product one ktlowatt-hour 1940-7

The TiThe (TETau (steam heat wid relectric power stations) built in critical usually had a madra capacity or 6,000, 12,000, 24,000, or 48.000 kilovatts Modin Modicow p-Leningrad, grad, Kiev, and other large cities, they usually hap a capacity of 24,000 or 48,000 kilovetts.

Const Construction of small electric power stations with capacities on 5,000 kilowatta and under are not included in Five Year Plata: They are baually inof adeabluded durithe budget estimates of the vities or the enterprises which care to be seibe served by them

High-High-voltage transmission linescare usually of 110,000, 154,000, and 220,0220,000 volts fithe flow-voltage ones 97% 12,000 6,000 and 3,000 voltage The than terminatuations allowed in the woltage delivered to different branches of tindustry, expresexpressed in percentages , are as viollows

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PROTE PRINTRICTED

SpecirSpecial: rindustries

Prom Prom 30045 cto+ 0.5

ChemicChemicaltindustries

From From #3 5to # 5

Metal Metallurgy

From Eronat 5 to ±7

Coal Coal mindustry

From From # 5 lto. # 10

MuniciMunicipal needs

From From to 10 to ± 12

As farAs fareas the frequency is represent to fluctuation was officially allowed; lowed; latertually mit isometimes, etropped from 50 mycles, to 48 mycles at local loads.

Price Prines charged for electric power produced by MES determ-electric power staticatations of GES chydros) actor produced by MES determ endeared based on actor lacter and a military industries, increased for light industries, and further approach for private consumers. [Author Author 10% states there that detailed price schedules can be supplied hyphim upon requested user. Prices are roughly as follows:

Price Pricek(kopeks per kw)

Capa: Gapacity (rubles per yr)

For helog heavy tindustries : 4-11

110-13110-130

For light-industries 10-15

175-19175-190

Priva Private oconsumers 5 36 23-36

182-00162-210

During During the plast prever years, not a single power asystem in the USSR could produce to sufficient quantity of power to meet the demand of the power was rationed to distribute the load eventy during bours, in the industrial patterprises were changed but distribute the load eventy during and the play the interprises were changed but distribute the load eventy during and being the first deeproves as shays, dening address, for unique and average and the appearance and being to distribute the load eventy during and a still verse; desting the mystem could not opported a sufficient number of hours for team because of according water abortages ages the inthe Duopic viana, System, where destinated between 560,000 miloways and 200,000 miloways and arrive the first and a rule, the growth of industries is considerably shead of the growth of electric power output inputsions user.

Until Until approximately, 1935/ turbines, generators, transformers mand other equipment formelectric power stations were imported, buthat the contbreak of the war tilk to the majority, of other equipment installed was manufactured in the USER all Usually, samplesamples of the majority of other equipment installed was manufactured in the USER all Usually, samplesamples of the made type of equipment ware imported from different dougtries, were managinappented and steated by specialists may then the best one was delected. After After gential alterations sand changes, the sample became residence tightesign and was advanted for production of the process was very effective which a rule, the most importundency pequipment is installed in the USER mand makes up 80-85 opercent of all call equipment installed

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